

GP/2152  
#5  
BT  
12.13.02  
Attorney Docket No. 294438006US11

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C., 20231, on:

Date: November 25, 2002

By: Sandy Reisman  
Sandy Reisman

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Kenneth H. Abbott *et al.*  
APPLICATION No.: 09/981,320  
FILED: October 16, 2001  
FOR: **DYNAMICALLY DETERMINING  
APPROPRIATE COMPUTER USER  
INTERFACES**

EXAMINER: Unknown  
ART UNIT: 2152  
CONF. NO: 49

**RECEIVED**  
DEC 03 2002  
Technology Center 2100

Information Disclosure Statement Within Three Months of  
Application Filing or Before First Action – 37 CFR 1.97(b)

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

1. Timing of Submission

This information disclosure is being filed within three months of the filing date of this application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever occurs last [37 CFR 1.97(b)]. The references listed on the enclosed Form PTO/SB/08A (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

2. Cited Information

- ☒ Copies of the following references are enclosed:
  - ☒ All cited references
  - ☐ References marked by asterisks
  - ☐ The following:
- ☐ Copies of the following references can be found in parent U.S. Application No.
  - ☐ All cited references
  - ☐ References marked by asterisks
  - ☐ The following:
- ☒ The following references are not in English. For each such reference, the undersigned has enclosed (i) a translation of the reference; (ii) a copy of a

communication from a foreign patent office or International Searching Authority citing the reference, (iii) a copy of a reference which appears to be an English-language counterpart, or (iv) an English-language abstract for the reference prepared by a third party. Applicant has not verified that the translation, English-language counterpart or third-party abstract is an accurate representation of the teachings of the non-English reference, though, and reserves the right to demonstrate otherwise.

- ☐ All cited references
- ☒ References marked by ampersands
- ☐ The following:

3. Effect of Information Disclosure Statement (37 CFR 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

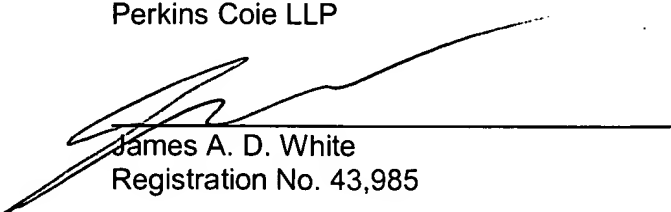
4. Fee Payment

No fees are believed due. However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-0665.

5. Patent Term Adjustment (37 CFR 1.704(d))

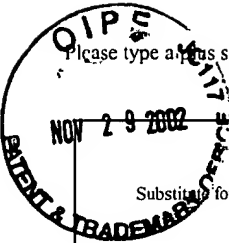
- ☐ The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

Respectfully submitted,  
Perkins Coie LLP

  
James A. D. White  
Registration No. 43,985

**Correspondence Address:**

Customer No. 25096  
Perkins Coie LLP  
P.O. Box 1247  
Seattle, Washington 98111-1247  
(206) 583-8888



Please type and sign (+) inside this box → ☐

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Substitute for form 1449A/PTO

(use as many sheets as necessary)

**COMPLETE IF KNOWN**

Application Number	09/981,320	Conf. No. 4975
Filing Date	October 16, 2001	
First Named Inventor	Kenneth H. Abbott	
Group Art Unit	2152	
Examiner Name	Unknown	
Attorney Docket No.	294438006US11	

Sheet	1	of	4
-------	---	----	---

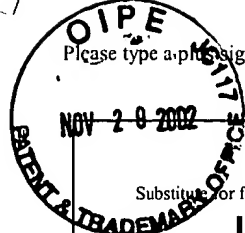
**U.S. PATENT DOCUMENTS**

*EXAMINER INITIALS*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
	/	4,916,441		Gombrich	4/10/90	
	/	5,032,083		Friedman	7/16/91	
	/	5,201,034		Matsuura et al.	4/6/93	
	/	5,208,449		Eastman et al.	5/4/93	
	/	5,214,757		Mauney et al.	5/25/93	
	/	5,227,614		Danielson et al.	7/13/93	
	/	5,335,276		Thompson et al.	8/2/94	
	/	5,416,730		Lookofsky	5/16/95	
	/	5,470,233		Fruchterman et al.	11/28/95	
	/	5,493,692		Theimer et al.	2/20/96	
	/	5,555,376		Theimer et al.	9/10/96	
	/	5,559,520		Barzegar et al.	9/24/96	
	/	5,568,645		Morris et al.	10/22/96	
	/	5,601,435		Quy	2/11/97	
	/	5,611,050		Theimer et al.	3/11/97	
	/	5,642,303		Small et al.	6/24/97	
	/	5,646,629		Loomis et al.	7/8/97	
	/	5,719,744		Jenkins et al.	2/17/98	
	/	5,726,660		Purdy et al.	3/10/98	
	/	5,751,260		Nappi et al.	5/12/98	
	/	5,781,913		Felsenstein et al.	7/14/98	
	/	5,790,974		Tognazzini	8/4/98	
	/	5,798,733		Ethridge	8/25/98	
	/	5,812,865		Theimer et al.	9/22/98	
	/	5,873,070		Bunte et al.	2/16/99	
	/	5,878,274		Kono et al.	3/2/99	

RECEIVED  
DEC 03 2002  
Technology Center 2100

EXAMINER	DATE CONSIDERED
----------	-----------------

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

## **COMPLETE IF KNOWN**

Application Number	09/981,340
Filing Date	October 16, 2001
First Named Inventor	Kenneth H. Abo
Group Art Unit	2152
Examiner Name	Unknown
Attorney Docket No.	294438006US11

RECEIVED  
NOV 03 2002  
Technology Center 2100

Sheet

2

of

4

## **U.S. PATENT DOCUMENTS**

*EXAMINER INITIALS*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
	/	5,902,347		Backman et al.	5/11/99	
	/	5,910,799		Carpenter et al.	6/8/99	
	/	5,938,721		Dussell et al.	8/17/99	
	/	5,948,041		Abo et al.	9/7/99	
	/	5,959,611		Smailagic et al.	9/28/99	
	/	5,991,687		Hale et al.	11/23/99	
	/	6,047,301		Bjorklund et al.	4/4/00	
	/	6,064,943		Clark, Jr. et al.	5/16/00	
	/	6,108,197		Janik	8/22/00	
	/	6,127,990		Zwern	10/3/00	

## **FOREIGN PATENT DOCUMENTS**

*EXAMINER INITIALS*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
	/	PCT	WO 90/08361		The Scott Fetzer Company	7/26/90		
	/	PCT	WO 97/03434		Virtual I/O, Inc.	1/30/97		
	/	EPO	EP 0823 813A2		Kopin Corporation	2/11/98		
	/ &	JPO	05260188		Matsushita Electric Ind. Co. Ltd.	10/8/93		
	/ &	JPO	09091112		Toshiba Corp.	4/4/97		

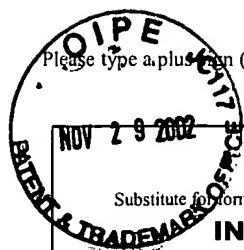
## **OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

*EXAMINER INITIALS*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	T
	/	"Affective Understanding: Modeling and Responding to User Affect," <a href="http://www.media.mit.edu/affect/AC_research/understanding.html">http://www.media.mit.edu/affect/AC_research/understanding.html</a> , pp. 1-3 [Accessed 2 Oct 1998].	
	/	"Alps GlidePoint," <a href="http://www.alps.com/p17.html">http://www.alps.com/p17.html</a> , p. 1 [Accessed 2 Oct 1998].	
	/	"GyroPoint Technology," <a href="http://www.gyration.com/html/gyropoint.html">http://www.gyration.com/html/gyropoint.html</a> , pp. 1-3 [Accessed 2 Oct 1998].	
	/	"Haptics," <a href="http://www.ai.mit.edu/projects/handarm-haptics/haptics.html">http://www.ai.mit.edu/projects/handarm-haptics/haptics.html</a> , pp. 1-2 [Accessed 2 Oct 1998].	

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

NOV 29 2002

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3

of

4

## COMPLETE IF KNOWN

Application Number	09/981,320	Conf. No. 4975
Filing Date	October 16, 2000	
First Named Inventor	Kenneth H. Abbott	
Group Art Unit	2152	DEC 03 2002
Examiner Name	Unknown	
Attorney Docket No.	294438006	Technology Center 2100

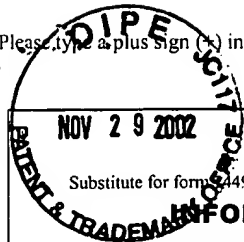
## OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

*EXAMINER INITIALS*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	T
	/	"Research Areas in Affective Computing," <a href="http://www.media.mit.edu/affect/">http://www.media.mit.edu/affect/</a> , p. 1 [Accessed 2 Oct 1998].	
	/	"Research on Affective Pattern Recognition and Modeling," <a href="http://www.media.mit.edu/affect/AC_research/recognizing.html">http://www.media.mit.edu/affect/AC_research/recognizing.html</a> , pp. 1-4 [Accessed 2 Oct 1998].	
	/	"Research on Sensing Human Affect," <a href="http://www.media.mit.edu/affect/AC_research/sensing.html">http://www.media.mit.edu/affect/AC_research/sensing.html</a> , pp. 1-5 [Accessed 2 Oct 1998].	
	/	"Smart Rooms," <a href="http://vismod.www.media.mit.edu/vismod/demos/smartroom/">http://vismod.www.media.mit.edu/vismod/demos/smartroom/</a> , pp. 1-3 [Accessed 2 Oct 1998].	
	/	"SmartDesk Home Page," <a href="http://vismod.www.media.mit.edu/vismod/demos/smartdesk/">http://vismod.www.media.mit.edu/vismod/demos/smartdesk/</a> , pp. 1-4 [Accessed 2 Oct 1998].	
	/	"The MIT Wearable Computing Web Page," <a href="http://wearables.www.media.mit.edu/projects/wearables/">http://wearables.www.media.mit.edu/projects/wearables/</a> , pp. 1-3 [Accessed 2 Oct 1998].	
	/	"Wearable Computer Systems for Affective Computing," <a href="http://www.media.mit.edu/affect/AC_research/wearables.html">http://www.media.mit.edu/affect/AC_research/wearables.html</a> , pp. 1-5 [Accessed 2 Oct 1998].	
	/	Bauer et al., "A Collaborative Wearable System with Remote Sensing," University of Oregon, February 1996	
	/	Billinghurst, Mark and Thad Starner, "New Ways to Manage Information," <i>IEEE</i> , pp. 57-64, January 1999.	
	/	Finger et al., "Rapid Design and Manufacture of Wearable Computers," <i>Communication of the ACM</i> , Vol. 39, No. 2, February 1996, pp. 63-68	
	/	Hull et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997).	
	/	Kirsch, Dana, "The Sentic Mouse: A tool for measuring emotional valence," <a href="http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html">http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html</a> , pp. 1-2 [Accessed 2 Oct 1998].	
	/	Kortuem et al., "Context-Aware, Adaptive Wearable Computers as Remote Interfaces to 'Intelligent' Environments," University of Oregon, October 1998	
	/	Lunt, Teresa F. et al., "Knowledge-Based Intrusion Detection," <i>Proceedings of the Annual Artificial Intelligence Systems in Government Conference</i> , IEEE Comp. Soc. Press, Vol. Conf. 4, 1989, pages 102-107.	
	/	Maes, Pattie, "Agents That Reduce Work and Information Overload," <i>Communications of the ACM</i> , Vol. 37, No. 7, July 1994.	
	/	Mann, Steve, "'Smart Clothing': Wearable Multimedia Computing and 'Personal Imaging' to Restore the Technological Balance Between People and Their Environments", <i>ACM Multimedia</i> , November 1996, pp. 163-174	
	/	Metz, Cade, "MIT: Wearable PCs, Electronic Ink, and Smart Rooms," <i>PC Magazine</i> , p. 192-193, June 1998.	
	/	Oakes, Chris, "The Truman Show Realized?," <a href="http://www.wired.com/news/news/technology/story/15745.html">http://www.wired.com/news/news/technology/story/15745.html</a> , pp. 1-4 [Accessed 21 Oct 1998].	
	/	Picard, R.W. and Healey, J., "Affective Wearables," <i>Personal Technologies</i> vol. 1: 231-240, MIT Media Laboratory (1997).	

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



Substitute for form 2449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	4	of	4	Application Number	09/981,320	Conf. No.	4975
-------	---	----	---	--------------------	------------	-----------	------

COMPLETE IF KNOWN	
Application Number	09/981,320
Filing Date	October 16, 2000
First Named Inventor	Kenneth H. Abbott
Group Art Unit	2152
Examiner Name	Unknown
Attorney Docket No.	294438006

**RECEIVED****DEC 03 2002****Technology Center 2100****OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

*EXAMINER INITIALS*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	T
	✓	Rekimoto et al., "The World through the computer: Computer Augmented Interaction with Real World Environments," ACM, November 1995, pp. 29-36	
	✓	Rhodes, Bradley, "WIMP Interface Considered Fatal," <a href="http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html">http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html</a> , pp. 1-3 [Accessed 2 Oct 1998].	
	✓	Rhodes, Bradley, J. "The Wearable Remembrance Agent: A System for Augmented Memory," Proceedings of the First International Symposium on Wearable Computers (ISWC '97), Cambridge, MA, October 13-14, 1997.	
	✓	Sato, J. et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," Proceedings Computer Animation, June 5, 1997.	
	✓	Smailagic et al., "Matching interface design with user task: Modalities of Interaction with CMU Wearable Computers," IEEE Personal Communications, February 1996, pp. 14-25	
	✓	Starner et al., "Visual Contextual Awareness in Wearable Computing," Media Lab, MIT, October 1998	
	✓	Tan, Hong Z. and Alex Pentland, "Tactual Displays for Wearable Computing," IEEE, Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997.	
	✓	Lashkari, Yezdi et al., "Collaborative Interface Agents," Proceedings of AAAI '94 Conference, Seattle, Washington, August 1994.	

EXAMINER	DATE CONSIDERED
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).</p>	